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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/917,722	07/31/2001	Kyoung Sup Shin	P-0247	P-0247 1247		
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FLESHNER & KIM, LLP			QUIETT, CARRAMAH J			
P.O. BOX 221200 CHANTILLY, VA 20153			ART UNIT	PAPER NUMBER		
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			DATE MAIL ED: 12/28/2004	DATE MAIL ED: 12/28/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	0.	Applicant(s)			
Office Action Summary		09/917,722	-	SHIN, KYOUNG SUP			
		Examiner		Art Unit			
		Carramah J. Q	uiett	2612			
Period fo	The MAILING DATE of this communicator Reply	tion appears on the cov	er sheet with the co	orrespondence a	ddress		
A SHO THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) repriod for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, reply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, ho ation. ays, a reply within the statutory ry period will apply and will expirity statute, cause the application	owever, may a reply be time minimum of thirty (30) days re SIX (6) MONTHS from the n to become ABANDONED	ely filed will be considered time he mailing date of this (
Status							
1)[Responsive to communication(s) filed of	on <u>31 July 2001</u> .					
2a) <u></u> □	This action is FINAL . 2b) This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers						
• —	The specification is objected to by the E						
10)⊠	10) \boxtimes The drawing(s) filed on <u>31 July 2001</u> is/are: a) \square accepted or b) \boxtimes objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to be						
Priority (under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:							

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Kuchta et al. (U.S. Pat #5,164,831).

As for claim 1, Kuchta teaches an image signal transmitting/receiving method, in figure 3A, comprising the steps of:

- transmitting/receiving a main image signal; the memory card (ref. 24), which stores image signals from figures 1A and 1B, transmits a high resolution (main) image signal to the connector (ref. 100), which receives a high resolution (main) image signal. Please read col. 7, lines 4-10 and col. 4, lines 53-67.
- checking whether a cut-off mode has been set for the main image signal; as explained in col. 7, lines 4-58, a high/low resolution (main/sub) image signal can be selected via an operator-designated selection routine (ref. 112). This selection routine (ref. 112) is considered a cut-off mode. When the selector (ref. 104) receives the selection routine, it checks whether to send the high resolution (or low resolution image) signals to the monitor (ref. 16) (via the D/A converter [ref. 114]).
- transmitting and displaying a sub-image signal instead of the main image signal in case that the cut-off mode is set. As explained in col. 7, lines 4-58, after the memory card (ref. 24) transmits the image signals to the connector (ref. 100) and then to the file decoder (ref. 102), the low resolution (sub-) image signal is sent to the selector (ref. 104). The operator-designated selection routine (ref. 112), which is considered the cut-off mode, can be set to display the low resolution image signal on the monitor (ref. 116) via the selector (ref. 104) and the D/A converter (ref. 114).

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For **claim 2**, Kuchta further teaches a method, in figure 3A, wherein the main image signal is a signal to be transmitted or a received image signal. The memory card (ref. 24), which stores image signals from figures 1A and 1B, transmits a high resolution (main) image signal to the connector (ref. 100), which receives a high resolution (main) image signal. Please read col. 7, lines 4-10 and col. 4, lines 53-67.

For **claim 3**, Kuchta further teaches a method, in figures 2A and 2B, wherein the sub-image signal is a signal stored in a predetermined storing area. In col. 4, lines 53-67, it states that the thumbnail (sub-) image signals are stored in a multi-format image file of the memory card (ref. 24) with an area for thumbnail and the same for the full resolution image.

For **claim 4**, Kuchta further teaches a method, wherein the sub-image signal is a signal inputted by a user. As illustrated in figure 1A, Kuchta states that a user can input a request (signal) to the processor (ref. 20), which sends a signal to the digital signal processor (ref. 22) to display the thumbnail (sub-) image signal (col. 4, lines 54-67). Moreover, in figure 3A, Kuchta further illustrates an operator-designated selection routine (ref. 112) where a user can input or request a thumbnail (sub-) image signal to be displayed (col. 7, lines 4-33).

For **claim 5**, Kuchta further teaches a method, wherein the sub-image signal is a previously transmitted main image signal. In figure 1A, when the image signal enters the compression and recording section (ref. 4) from the input section (ref. 2), the image signal is in full (high) resolution (col. 1, line 29 – col. 2, line 67). As the image signal enters the digital signal processor, Kuchta further explains the processing in figure 1B. The sub-image signal is a previously transmitted main image signal because the image signal does not separate into a low

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and high resolution until the signal undergoes discreet cosine transform (ref. 33). Please read col. 5, lines 7-35.

For **claim 6**, Kuchta further teaches a method, wherein the main image signal is transmitted and displayed in case that the cut-off mode has not been set. As explained in col. 7, lines 4-58, after the memory card (ref. 24) transmits the image signals to the connector (ref. 100) and then to the file decoder (ref. 102), the high resolution (main) image signal is sent to the selector (ref. 104) via the expander (ref. 106) and the image buffer (ref. 108). The operator-designated selection routine (ref. 112), which is considered the cut-off mode, is capable of not being set to display the low resolution image signal on the monitor (ref. 116) via the selector (ref. 104) and the D/A converter (ref. 114)...the high resolution will be displayed.

Regarding claim 7, Kuchta discloses an image signal transmitting/receiving apparatus, in figures 1A and 3A, comprising:

- an image signal processor (fig.1, ref. 22) for processing a main image signal (col. 3, line 22-col. 4, line12);
- a display unit (fig. 3A, ref. 116) for displaying the received main image signal (col. 7, lines 30-33);
- a controller (ref. 112) for checking whether a cut-off mode has been set for the main image signal. As explained in col. 7, lines 4-58, a high/low resolution (main/sub) image signal can be selected via an operator-designated selection routine (ref. 112). This selection routine (ref. 112) is considered a cut-off mode. When the selector (ref. 104) receives the selection routine, it checks whether to send the high resolution (or low resolution image) signals to the monitor (ref. 16) (via the D/A converter [ref. 114]).

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• an image signal selector (ref. 104) for selectively outputting a sub-image signal instead of the main image signal to the image signal processor or the display unit in case that the cut-off mode has been set. As explained in col. 7, lines 4-58, a high/low resolution (main/sub) image signal can be selected via an operator-designated selection routine (ref. 112). This selection routine (ref. 112) is considered a cut-off mode. When the selector (ref. 104) receives the selection routine, it checks whether to send the high resolution (or low resolution image) signals to the monitor (ref. 16) (via the D/A converter [ref. 114]).

For **claim 8**, Kuchta further discloses an apparatus, wherein the sub-image signal is a signal stored by a user or the main image signal that has been previously transmitted. As illustrated in figure 1A, Kuchta states that a user can input a request (signal) to the processor (ref. 20), which sends a signal to the digital signal processor (ref. 22) to display the thumbnail (sub-) image signal (col. 4, lines 54-67). Moreover, in figure 3A, Kuchta further illustrates an operator-designated selection routine (ref. 112) where a user can input or request a thumbnail (sub-) image signal to be displayed (col. 7, lines 4-33). In figure 1A, when the image signal enters the compression and recording section (ref. 4) from the input section (ref. 2), the image signal is in full (high) resolution (col. 1, line 29 – col. 2, line 67). As the image signal enters the digital signal processor, Kuchta further explains the processing in figure 1B. The sub-image signal is a previously transmitted main image signal because the image signal does not separate into a low and high resolution until the signal undergoes discreet cosine transform (ref. 33). Please read col. 5, lines 7-35.

For claim 9, Kuchta further discloses an apparatus, wherein the image signal selector outputs the main image signal to the image signal processor in case that the cut-off mode has not been

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set. As explained in col. 7, lines 4-58, after the memory card (ref. 24) transmits the image signals to the connector (ref. 100) and then to the file decoder (ref. 102), the high resolution (main) image signal is sent to the selector (ref. 104) via the expander (ref. 106) and the image buffer (ref. 108). The operator-designated selection routine (ref. 112), which is considered the cut-off mode, is capable of not being set to display the low resolution image signal on the monitor (ref. 116) via the selector (ref. 104) and the D/A converter (ref. 114)...the high resolution will be displayed.

For **claim 10**, Kuchta further discloses an image signal transmitting apparatus, in figures 1A and 3A, comprising:

- an image signal processor (fig.1, ref. 22) for processing a main image signal (col. 3, line 22-col. 4, line12);
- a controller (ref. 112) for checking whether a cut-off mode has been set for the main image signal. As explained in col. 7, lines 4-58, a high/low resolution (main/sub) image signal can be selected via an operator-designated selection routine (ref. 112). This selection routine (ref. 112) is considered a cut-off mode. When the selector (ref. 104) receives the selection routine, it checks whether to send the high resolution (or low resolution image) signals to the monitor (ref. 16) (via the D/A converter [ref. 114]).
- an image signal selector (ref. 104) for outputting a sub-image signal instead of the main image signal to the image signal processor in case that the cut-off mode has been set. As explained in col. 7, lines 4-58, a high/low resolution (main/sub) image signal can be selected via an operator-designated selection routine (ref. 112). This selection routine (ref. 112) is considered a cut-off mode. When the selector (ref. 104) receives the selection routine, it

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checks whether to send the high resolution (or low resolution image) signals to the monitor (ref. 16) (via the D/A converter [ref. 114]).

For claim 11, the limitations can be found in claim 8. Therefore, please read the reasons for rejecting claim 8 for the rejection of this claim.

For claim 12, Kuchta further discloses an apparatus, wherein the image signal selector outputs the main image signal to the image signal processor in case that the cut-off mode has not been set. As explained in col. 7, lines 4-58, after the memory card (ref. 24) transmits the image signals to the connector (ref. 100) and then to the file decoder (ref. 102), the high resolution (main) image signal is sent to the selector (ref. 104) via the expander (ref. 106) and the image buffer (ref. 108). The operator-designated selection routine (ref. 112), which is considered the cut-off mode, is capable of not being set to display the low resolution image signal on the monitor (ref. 116) via the selector (ref. 104) and the D/A converter (ref. 114)...the high resolution will be displayed.

As for **claim 13**, Kuchta discloses an apparatus, an image signal receiving apparatus, in figures 1A and 3A, comprising:

- an image signal processor (fig.1, ref. 22) for processing a main image signal (col. 3, line 22-col. 4, line12);
- a display unit (fig. 3A, ref. 116) for displaying the received main image signal (col. 7, lines 30-33);
- a controller (ref. 112) for checking whether a cut-off mode has been set for the main image signal. As explained in col. 7, lines 4-58, a high/low resolution (main/sub) image signal can be selected via an operator-designated selection routine (ref. 112). This selection routine

(ref. 112) is considered a cut-off mode. When the selector (ref. 104) receives the selection routine, it checks whether to send the high resolution (or low resolution image) signals to the monitor (ref. 16) (via the D/A converter [ref. 114]).

• an image signal selector (ref. 104) for outputting a sub-image signal instead of the received main image signal to the display unit in case that the cut-off mode has been set. As explained in col. 7, lines 4-58, a high/low resolution (main/sub) image signal can be selected via an operator-designated selection routine (ref. 112). This selection routine (ref. 112) is considered a cut-off mode. When the selector (ref. 104) receives the selection routine, it checks whether to send the high resolution (or low resolution image) signals to the monitor (ref. 16) (via the D/A converter [ref. 114]).

For **claim 14**, the limitations can be found in claim 8. Therefore, please read the reasons for rejecting claim 8 for the rejection of this claim.

For **claim 15**, Kuchta further discloses an apparatus, wherein the image signal selector outputs the received main image signal to the image signal display unit in case that the cut-off mode has not been set. As explained in col. 7, lines 4-58, after the memory card (ref. 24) transmits the image signals to the connector (ref. 100) and then to the file decoder (ref. 102), the high resolution (main) image signal is sent to the selector (ref. 104) via the expander (ref. 106) and the image buffer (ref. 108). The operator-designated selection routine (ref. 112), which is considered the cut-off mode, is capable of not being set to display the low resolution image signal on the monitor (ref. 116) via the selector (ref. 104) and the D/A converter (ref. 114)...the high resolution will be displayed.

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Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Kawai et al. (U.S. Pat. #6,137,485)	Transmitting/receiving apparatus and method.
	User can control camera at a remote location.
	Different resolutions of images (zoomed-in or
	reduced) create a sub-image. User can select a
	main image or a sub-image.
Urisaka et al. (U.S. Pat. # 6,714,238)	Transmitting/receiving apparatus and method.
	User can control camera at a remote location.
	Different resolutions of images (zoomed-in or
	reduced) create a sub-image. User can select a
	main image or a sub-image.
Siohara (U.S. Pat. # 6,618,553)	Transmitting/receiving device in which a user
	can select different resolutions (sizes) of image
·	to be prepared.
Slotsznick (U.S. Pat. # 6,011,537)	Transmitting/receiving device that displays
	primary (main) information and secondary
	(sub) information.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carramah J. Quiett whose telephone number is (703) 305-0566. The examiner can normally be reached on 8:00-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on (703) 305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C.J.Q.

Dec. 21, 2004

PRIMARY EXAMINER